

# THOMSON CONSUMER ELECTRONICS

Service

NO	RE	M	=1	DE
THOM	SON	TEC	HNC	TOGY

SABA

TELEFUNKEN

A THOMSON

**FERNSEHEN TELEVISION TÉLÉVISION** 

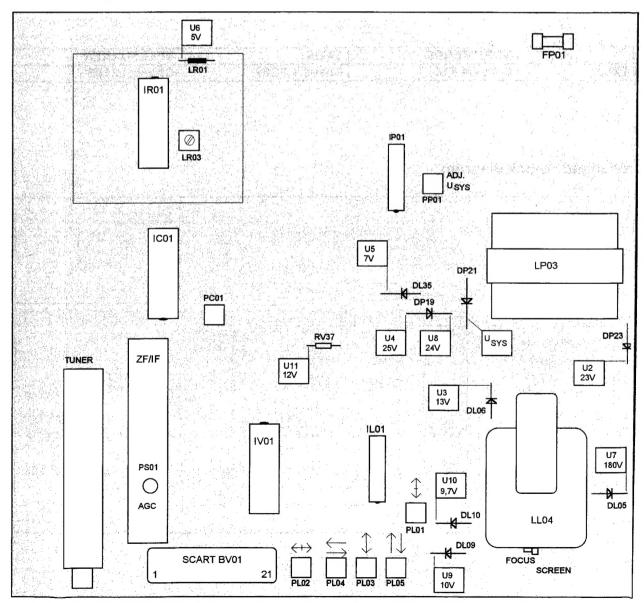
Bestell-Nr. 102.508.30

**Chassis TX 90** 

ACHTUNG! Ersatzteilbestellungen sind schneller und kostengünstiger über Fax 05 11 / 4 18-12 60

10" / 14" / 15" / 16" / 20"

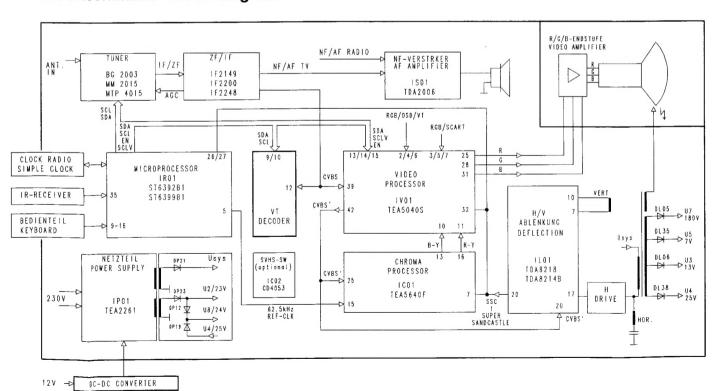
Service-Lageplan · Layout diagram · Disposition des régleurs Posizione regulatori di servizio · Situation de los aiustes



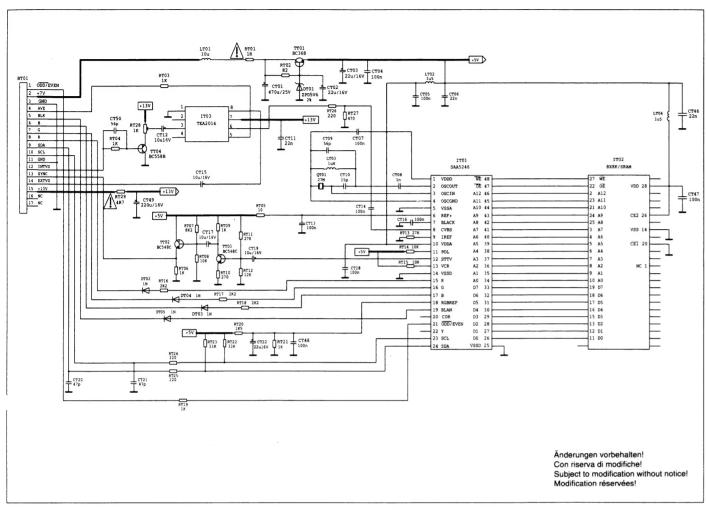
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Referenz	NORDMENDE	SABA	TELEFUNKEN
Chassis TX90	Chassis F26	Chassis SC09	Chassis 318B

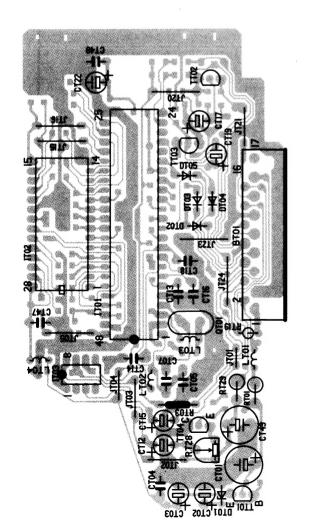
#### Blockschaltbild · Block diagram

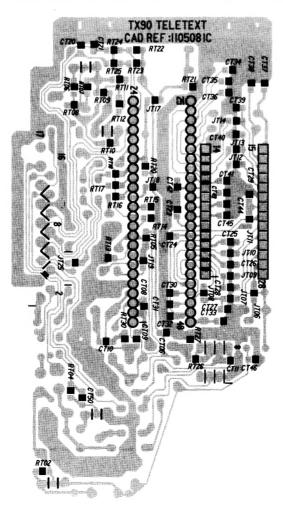


### Videotext-Decoder · Teletext decoder · Décodeur Vidéotexte · Decoder Televideo Descodificador Teletexto - TX 90



Lötseite · solder side · côté soudure · lato saldature · lado soldaduras





### Service Einstellungen · Adjustments · Réglages · Regolazioni · Ajustes de servicio

U system	PP01	*		V + CP22	10": 101V (103V - 10" PRO) 14": 104V 15": 106V 16" / 20": 108V
HPos.	PL04	\$			<b>← →</b>
HFrequ.	PL02	\$	MT01⇔MT02		$\longleftrightarrow$
VPos.	PL05	*			$\uparrow\downarrow$
VAmpl.	PL03	4			$\bigcirc$
VFrequ.	PL01	\$		4	<b>1</b>
U G2	G2 SCREEN	4	-		dunkel ⇔ gerade sichtbar dark ⇔ just visible
Schärfe Focus	Focus	*	⇒ ¥ <b>□</b>		optimale Auflösung optimal resolution
AGC	PS01 (IF)	*	3mV Y Ch 9 BG	Pin 3 Tuner HF	1. max. 2. max 8dB
PAL Chroma Delay	PC01	*	⇒ ¥	CRT-Board	line 1 + line 2
Weißabgleich white alignment (CRT-Board)	PT50 PT70	*	⇒ ¥  ⇒ = standard  ⇒ = min.		Weiß, white

### Wertetabellen · Tables of values

Tabelle / Table 1 #

#			RS05			RS06				
*	10"	14"	15"	16"	20"	10"	14"	15"	16"	20"
PAL/SECAM 2108TX	82K	91K	91K	91K	91K	15K	15K	11K	11K	13K
PAL/SECAM 2149	100K	68K	68K	68K	75K	24K	13K	11K	11K	15K
PAL/SECAM 2248	62K	68K	68K	68K	68K	13K	12K	10K	10K	12K
PAL 2200	91K	68K	100K	100K	82K	15K	10K	10K	10K	10K
PAL 2200	91K	68K	100K	100K	82K	15K	10K	10K	10K	10K
PAL 2205	82K	91K	100K	100K	91K	13K	12K	10K	10K	11K
SECAM 2130	-	-	-	-	-	-	-	-	-	-

abelle /	Table	2 *
	CM	20

3

	SMPS	
ITEM	176-264VAC	90-264VAC
RP10	27K/5W	10K/5W
RP04	47/1W	27/1W
TP01	BUT12A	BUH314TH
LP03	SMV42-20	SMV42-18
LP01	ELF-18DG652N	ELF-18DG651N
FP01	T1.6A	T2.5A

ITEM	DESCRIPTIONS
BV04	WAFER 17-WAYS
CL35	CC 330p/50V
CL36	CE 470u/16V
CL37	CPM 10n/63V
DL35	DIODE BA157
RL18 10"	
14"	RCF 6K8/0.25W
15"	RCF 5K6/0.25W
16"	RCF 5K6/0.25W
20"	RCF 5K6/0.25W
RL40	RCFF R22/0.3W
RR14	RCFCC 10K/0.1W
RR15	RCFCC 5K6/0.1W
RR17	RCFCC 22K/0.1W
RR25	RCFCC 56K/0.1W
TR15	TR. BC548B
TR16	TR. BC548B
FOR FAST-TEXT IC SOCKET IS ADDED TO IR01 MICRO-P IC	IC SOCKET 42-P SHRINKED DIP

| Tabelle / Table | Ta

RL27 HEATER 

Tabelle / Tab

TUNER IF-MODULE LV01 QV01

RV32

RR20 RS05 RS06 RR94 CV40 CV41 CV41 DV40 LV02 RC18 RC19 RC20 RV40 RV41 RV43 RV44 RV45 RV46 TC02 TV05 TV05

RV29 RV47 JV39 RC14

#### le servicio

ER 17-WAYS 330p/50V

5K6/0.25W 5K6/0.25W 5KB/0 25W FF R22/0.3W CC 22K/0.1W CC 56K/0.1W

### Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 1)

Lötseite  $\cdot$  solder side  $\cdot$  côté soudure  $\cdot$  lato saldature  $\cdot$  lado soldaduras

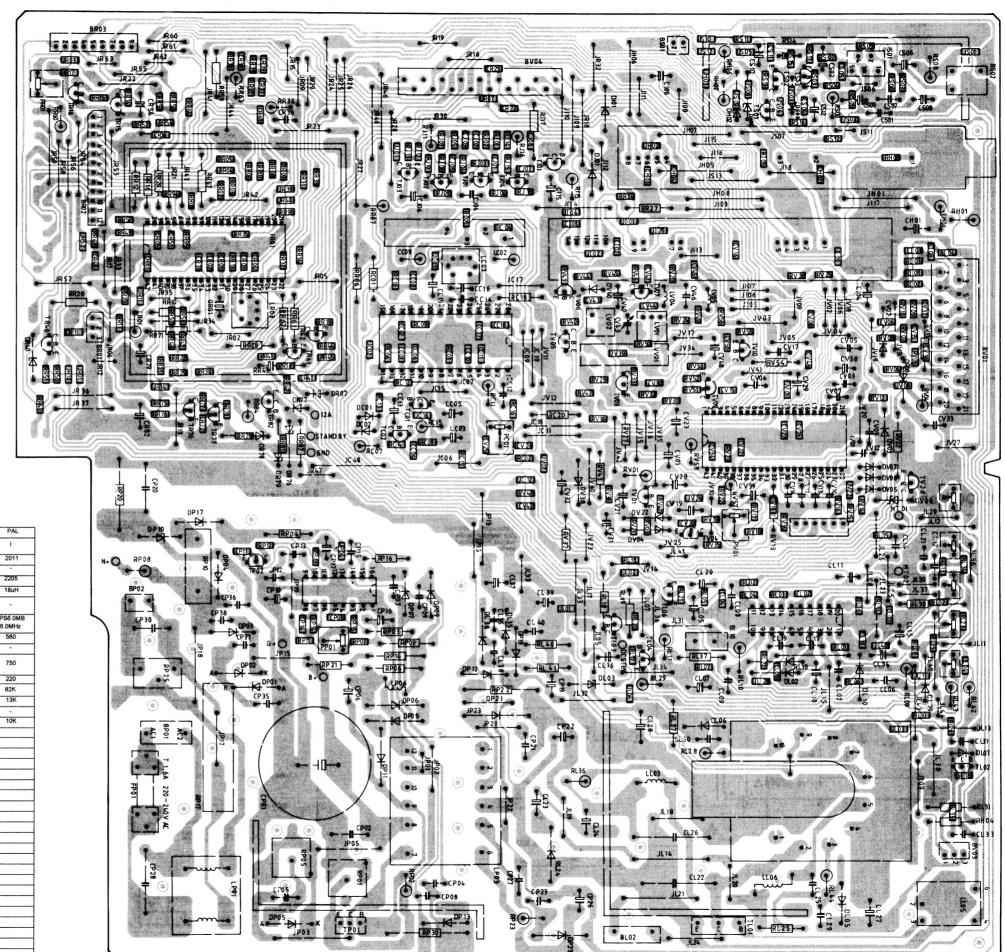


Tabelle / Table 3 \*\*

ITEM DESCRIPTIONS

CLOS HORLLINEARITY

DV24 VIDEO REE ZENER

DEGAUSSING COIL

DC BIAS OF VERT O/P RES.

VERTICAL DAMPER RESIST

DC BIAS OF VERT OUTPUT RESISTOR

SMPS I SENSING RESISTOR

SMPS IC

BASE CURRENT LIMITER

13V FUSIOLE RESISTOR

ABL DIVIDER RESISTOR

WHITE-BALANCE RESISTOR

RV17 CATHODE CURREN RESISTOR

ZPD5V6

112uH

DC-1003A

13K/0.1W

390/0.7W

47/1W

0.22/0.5W

820

3K0

47K

7PD6V2

90uH 2436218

DC-993

13K/0.1W

680/0.7W

2M2

R27/3W

0.22/0.3W

820

390

1K

82K

47K

DC-975

+-1% 13K/0.1W

390/0.7W

2M2

R27/3W

1R/0.5W

0.22/0.3W

750

1K

DC-9010-16

390/0.7W

R27/3W

0.56/0.5W

0.22/0.3W

47K

COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	SECAM	PAL	PAL	PAL
TV	BGHILL' BGILL	BGLDKK'	BGDKK	II.	BG	BG	1
TUNER	2015	2015 2015		2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	-	HYPERBAND	-	-
IF-MODULE	2108TX	2149	2248	2130TX	2200	2200	2205
LV01	8.2uH	8.2uH	8.2uH	10uH	10uH	10uH	18uH
QV01	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPS6.5MB 6.5MHz	TPW04B 5.5/5.7MHz	TPW04B 5.5/5.74MHz	
QV02	TPS6.0MB 6.0MHz	TPS6.5MB 6.5MHz	TPS6.5MB 6.5MHz	-	-	-	TPS6.0MB 6.0MHz
RV20	220	220	220	560	270	180	560
RV24	1K5	1K2	1K8	2K2	1K5	1K5	-
RV32	1K	1K	1K	1K	750	750	750
RR20	56	56	56		220	220	220
RS05	82K	100K	62K	-	91K	91K	82K
RS06	15K	24K	13K		15K	15K	13K
RR94	-	-	-	10K	-	-	-
RR95	10K	10K	10K	-	10K	10K	10K
CV40	CE ·	10u/16V +50 -209	6				
CV41	CC	CC 56p J 50V SL				•	
CV47	CC	CC 10n M 16V Y5	is			•	
DV40		DIODE 1N4148				-	
LV02	L	A 7X7 4ME43Hz			I	-	
RC18		RCF 10K 0.25W				-	
RC19	F	RCFCC 7K5 0.1W				-	
RC20	F	RCF 100K 0.25W				-	
RV40	F	RCFCC 10K 0.1W				-	
RV41	F	RCFCC 1K8 0.1W				-	
RV43		RCF 4K7 0.25W				-	
RV44		RCF 4K7 0.25W				-	
RV45	F	RDFCC 47K 0.1W				-	
RV46	F	RCFCC 10K 0.1W				-	
TC02		TR BC5508					
TV05		TR BC558C					
TV06		TR BC548C				-	
TV07		TR BC548C				-	
RV29	F	RCFCC 1K3 0.1W			T	RCFCC 1K6 0.1\	٧
RV47	F	RCFCC 220 0.1W				RCFCC OR % 0.1	W
JV39		-				JUMPER 10m	m
RC14	F	RCFCC 82R 0.1W			T	RCFCC 0R 0.1	W

470n/250V ZPD6V2

DC-931

390/0.7W

2M2

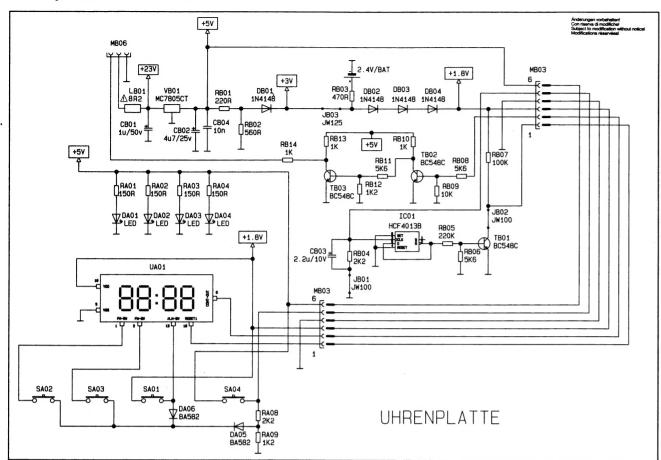
0.56/0.5W

0.22/0.3W

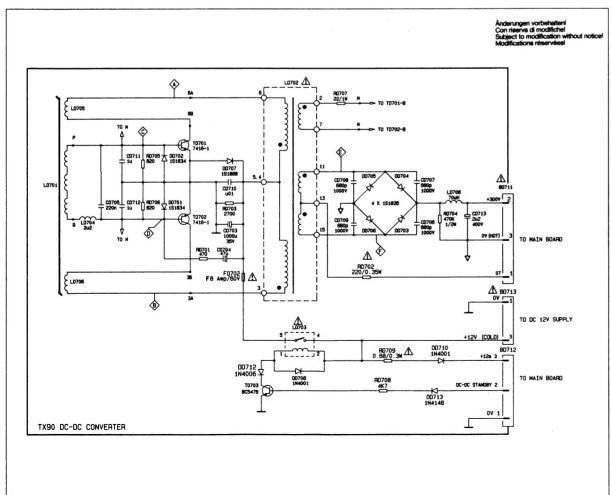
8/4W

33K

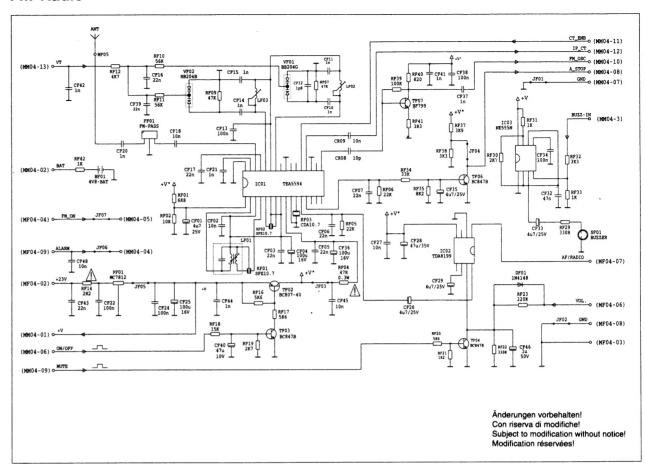
### **Uhrenplatte · Clock board**



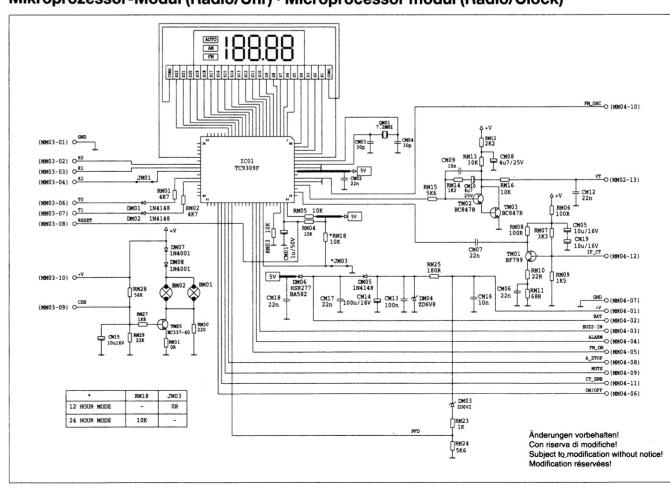
#### **DC-DC Konverter · DC-DC Converter**



### FM-Radio

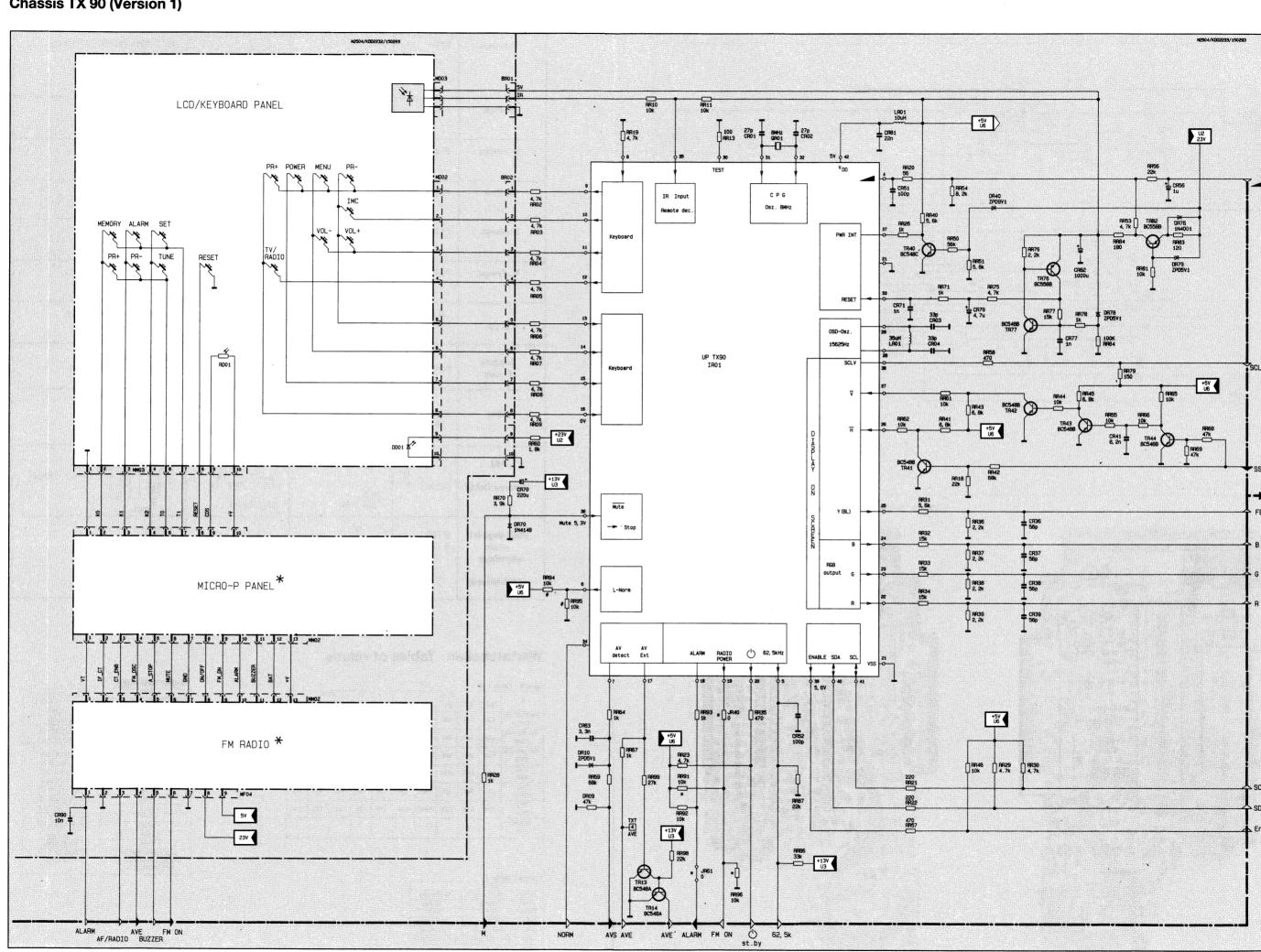


### Mikroprozessor-Modul (Radio/Uhr) · Microprocessor modul (Radio/Clock)



\* not used in all m

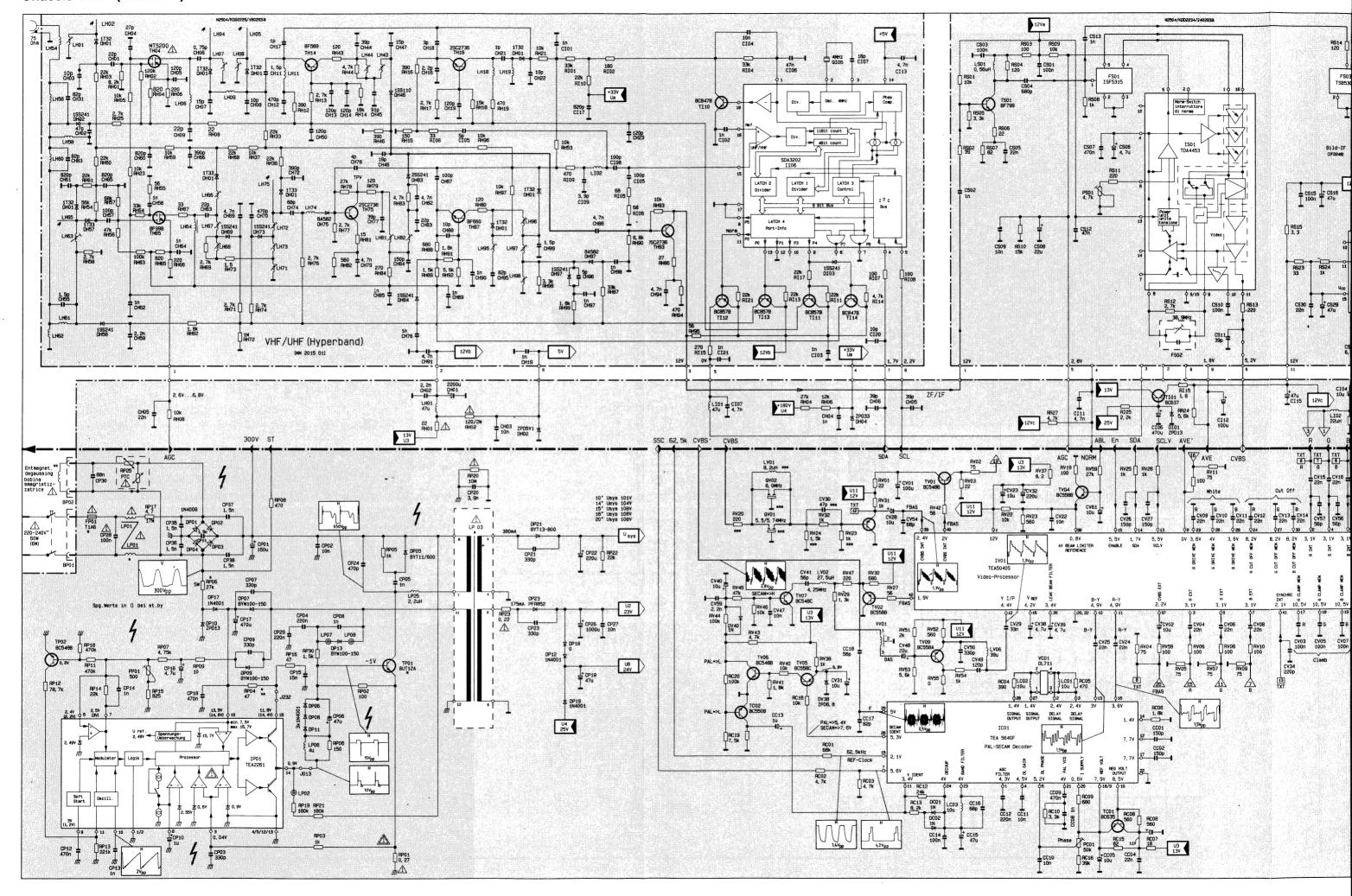
Chassis T

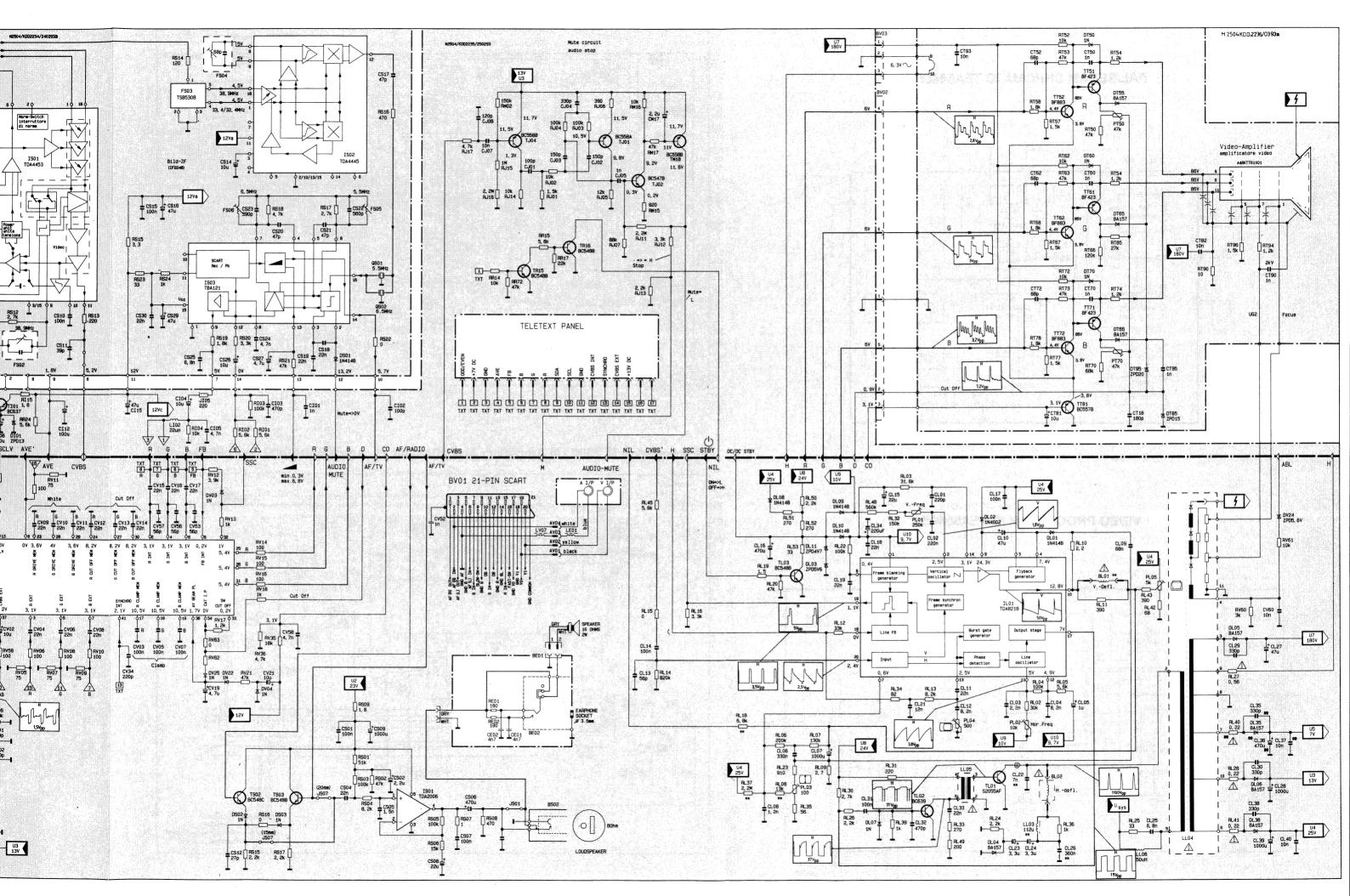


\* not used in all models

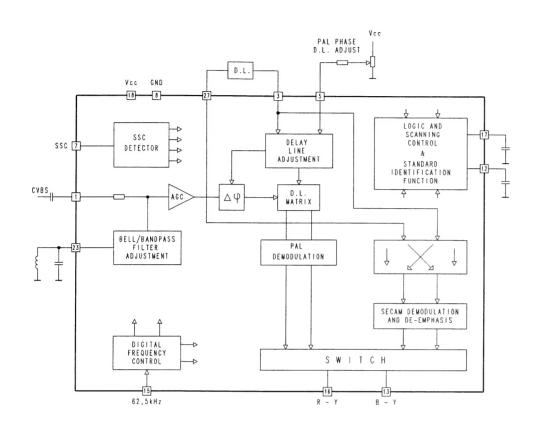
out notice!

### Chassis TX 90 (Version 1)

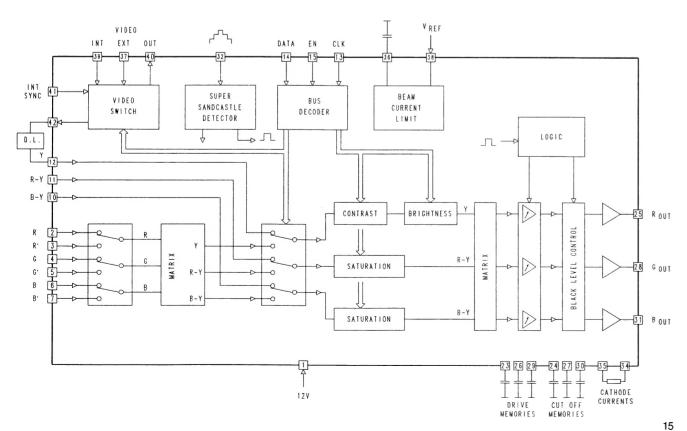




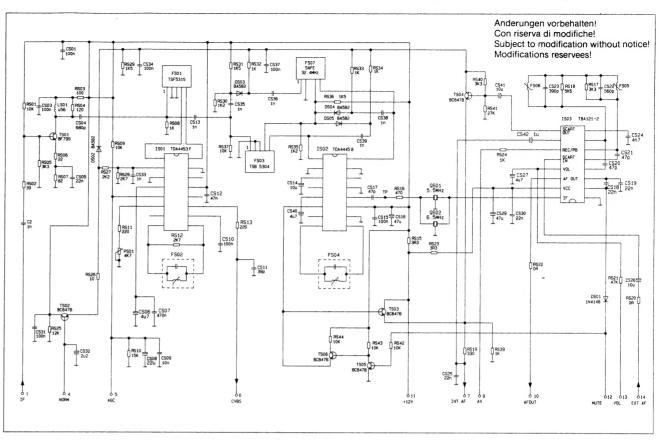
### PAL/SECAM CHROMA IC TEA5640F



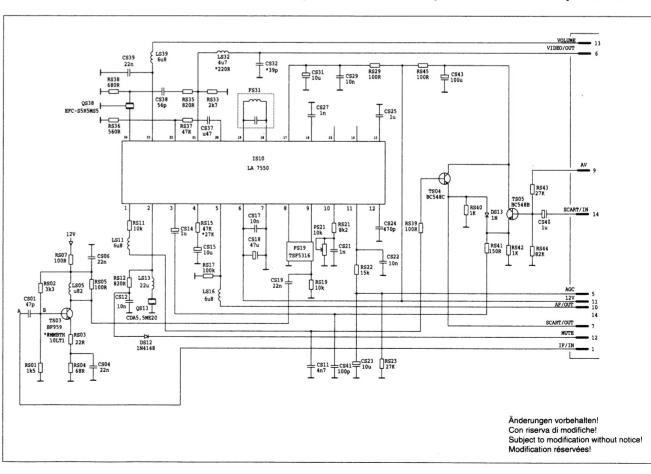
#### VIDEO PROCESSOR IC TEA5040S



### ZF-Verstärker IF 2149 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI



### ZF-Verstärker IF 2200 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI



### dor FI

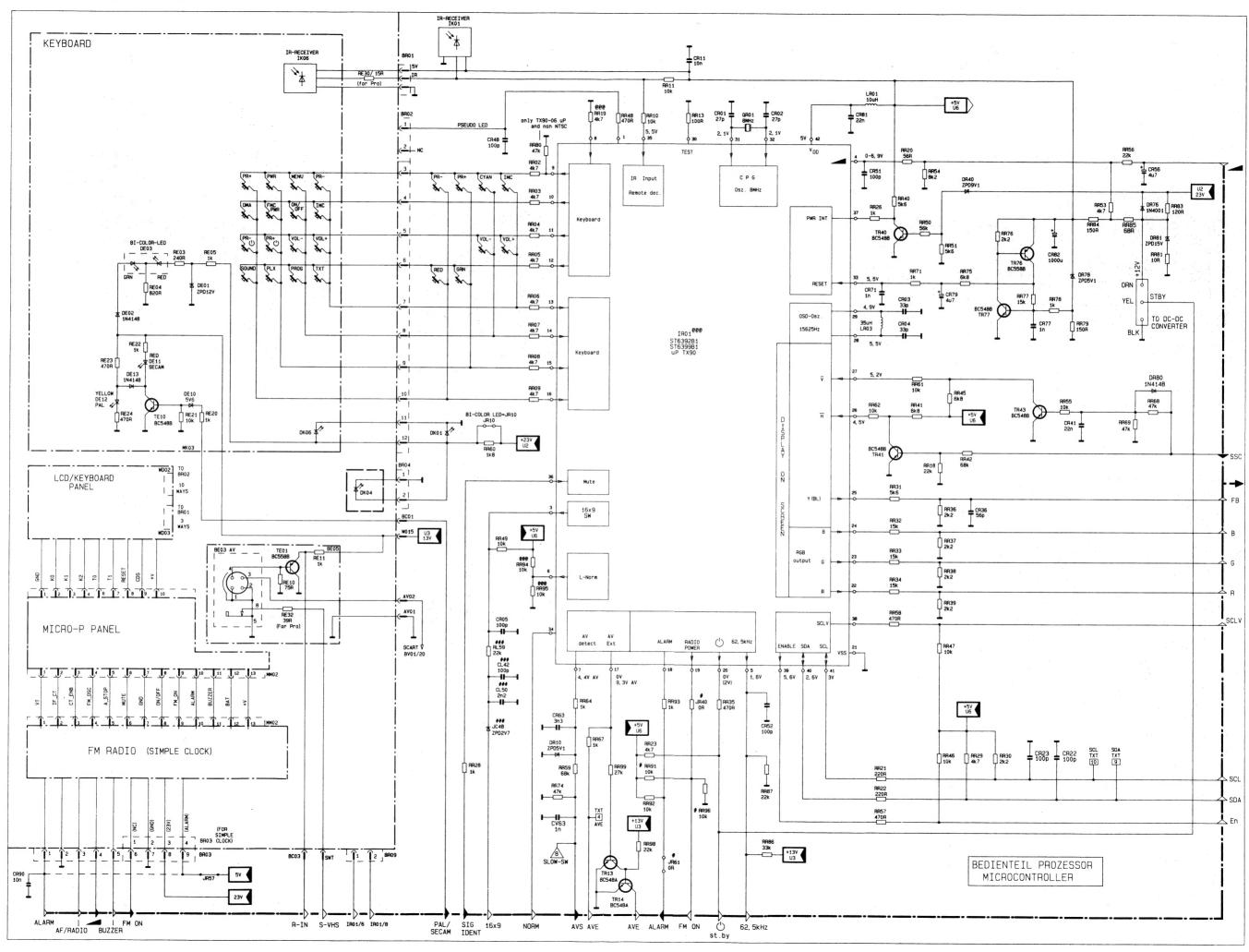




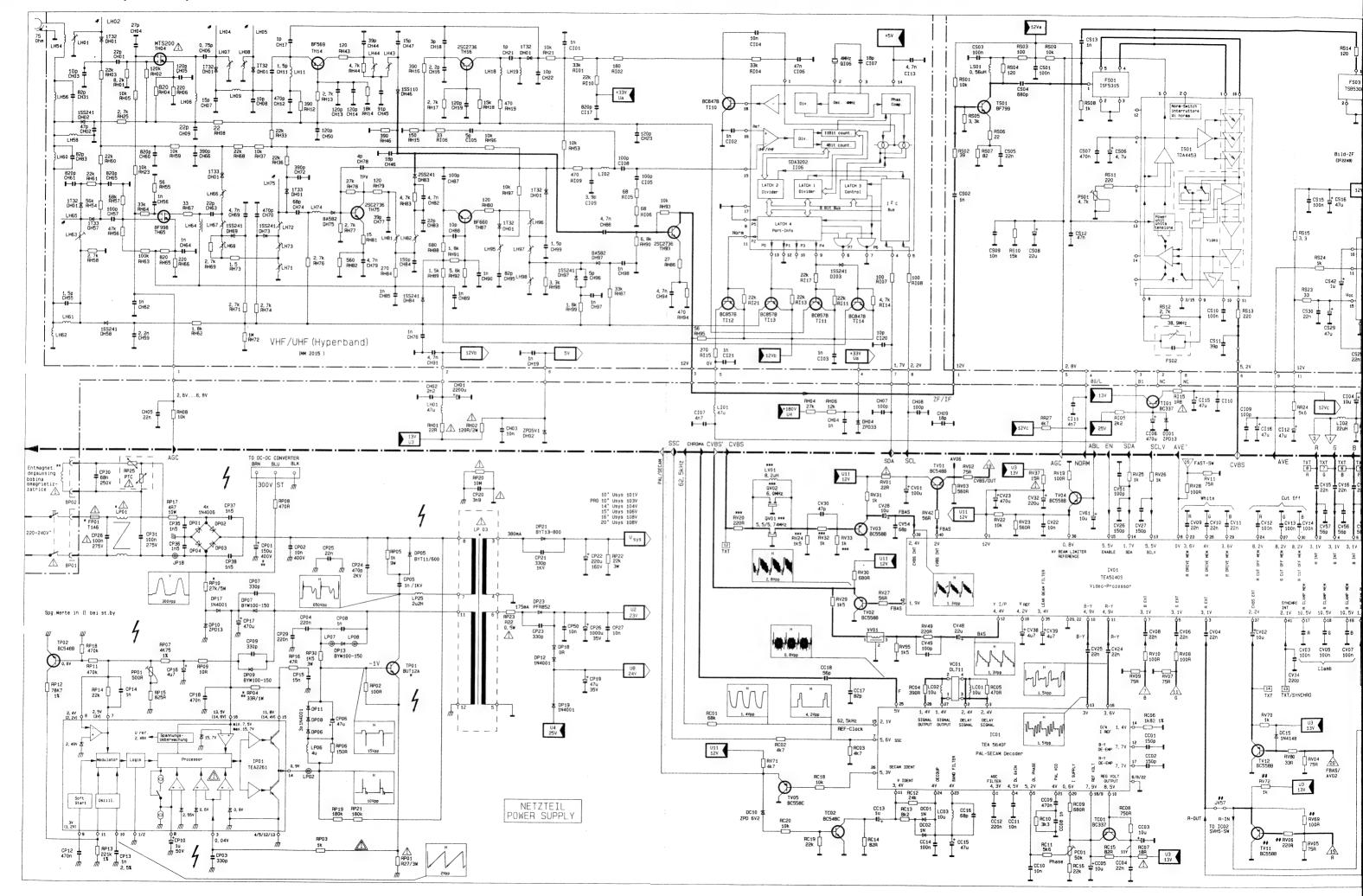
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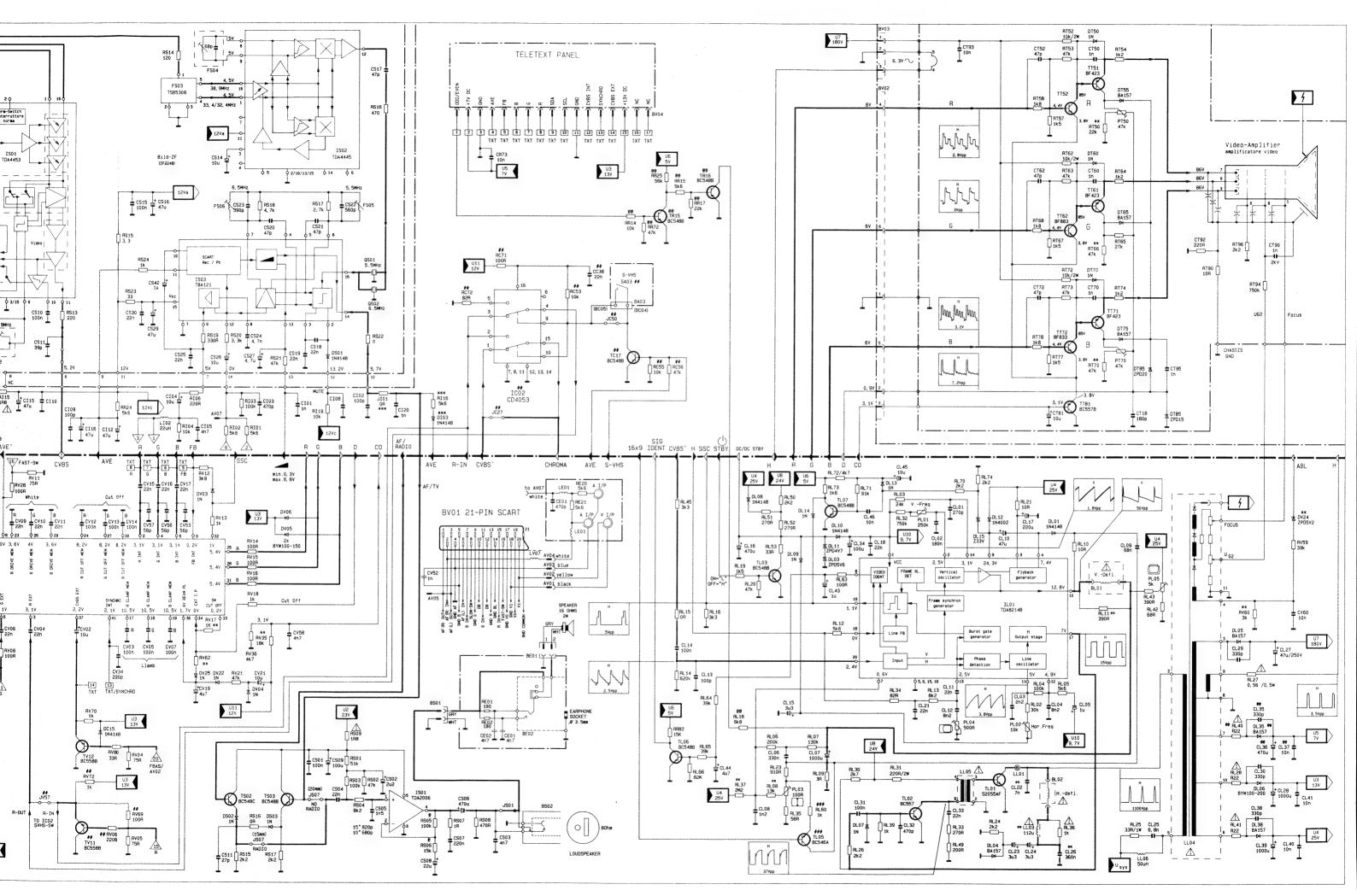


### Chassis TX 90 (Version 2)



### Chassis TX 90 (Version 2)





Chass Lötseite · s

Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

- 1. Auf Luft- und Kriechstrecken achten! Z. B. durchstehende Drähte ausgewechselter Bauelemente kurz abschneiden.
- 2. Sicherheitsbauteile A nur gegen Original-Ersatzteile auswechseln (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

- Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
- 2. Components with an essential safety function A are to be replaced only with originalequipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, après une réparation, il convient de veiller à

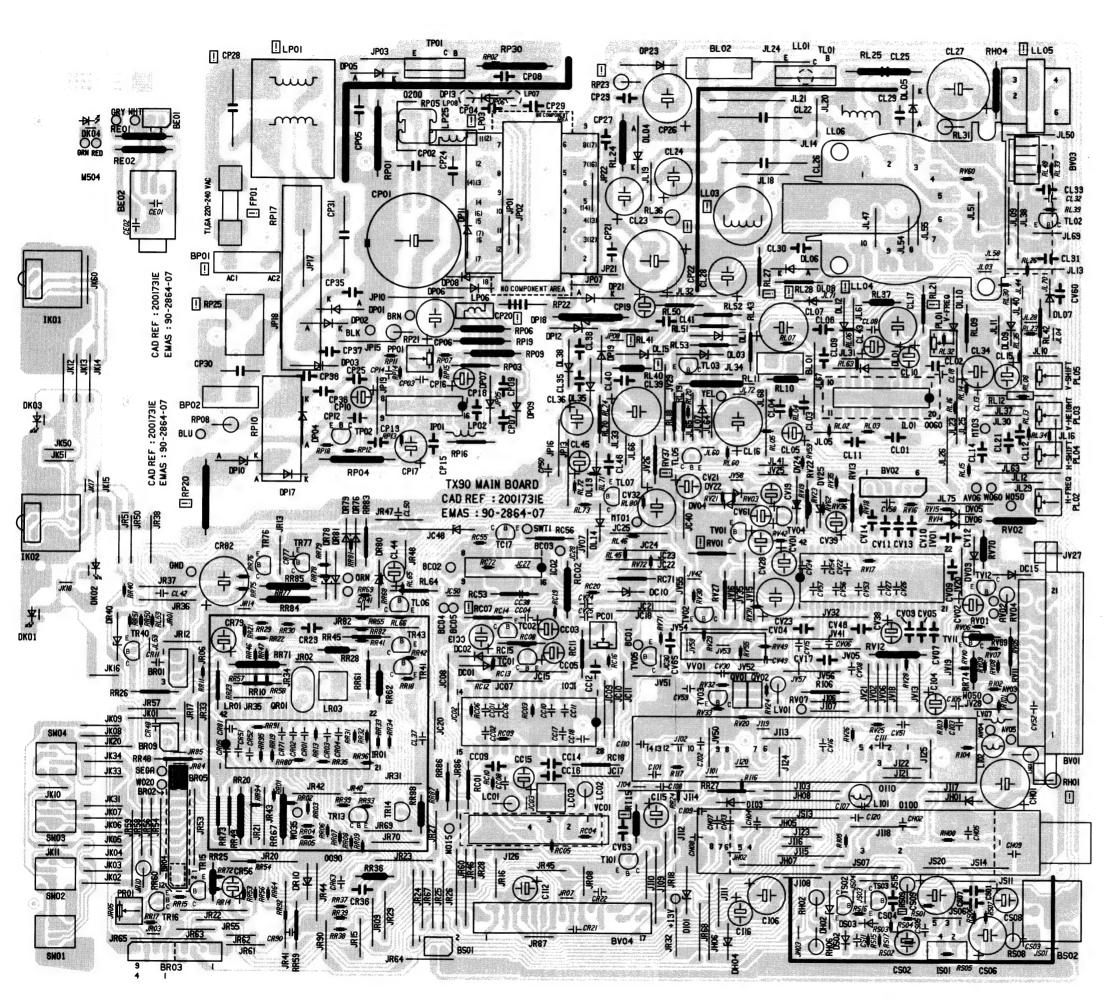
- 1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction
- 2. N'échanger les éléments de sécurité A que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio é separato rete. Il punto di separazione risieda tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicu-

- 1. Tenere conto delle distanze dei componenti e dei percosi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati
- 2. Componenti di sicurezza  $\Delta$  devono essere sostituiti solamente con ricambi originali (vedere schema).

El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente.

- 1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
- 2. Los componentes marcados en el esquema con el símbolo  $\boldsymbol{\Delta}$  deben ser substituidos por repuestos originales (ver esquema).



### Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 2)

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras

nstelle liegt u gewährrzustellen:

wechselter

riginal-Erlaufplan).

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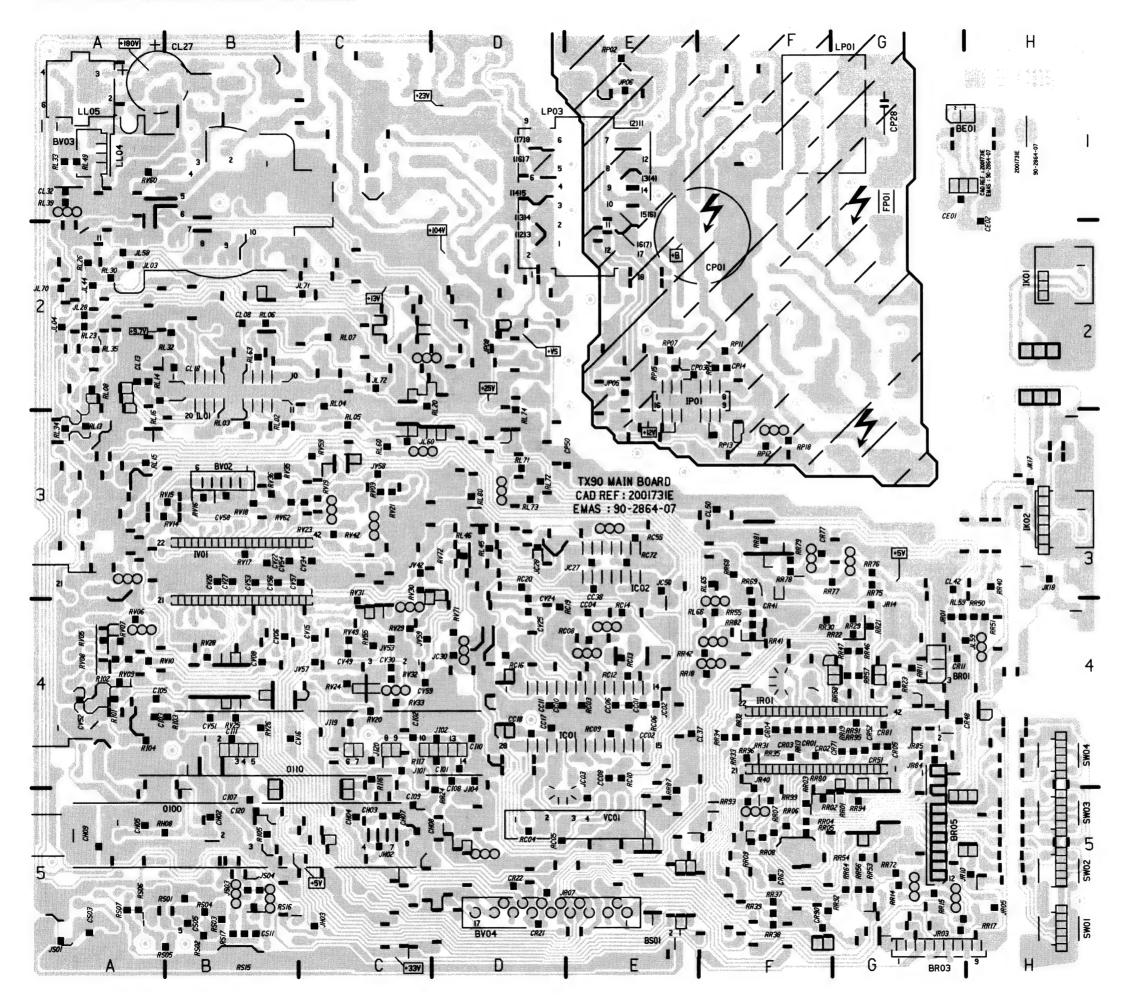
nponenti e saggio dei ere tagliati

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entes. Por los hilos y pistas del

esquema tuidos por



### Wertetabellen · Tables of values

Tabelle / Table 1 @@@

POS.NO.	MSTD			SECAM LL'
1R01	08 (Hotel)	0.8	07	07
RR19	-	100p	-	-
RR94	-	-	-	10K
RR95	-	100p	10K	-

Tabelle / Table 2 \*

	* SMPS	
ITEM	176-264VAC	90-264VAC
RP10	27K/5₩	10K/5W
RP04	33/1w	27/1W
TP01	BUT12A	BUH314TH
LP03	SMV42-20	SMV42-18
LP01	ELF-180650HJ	ELF-1806851N
FP01	T1.6A	T2.5A

ITEM	DESCRIPTION	10*	14"	15*	16"	20 *
CL22	HORI. RETRACE	7n/1K6V (T)	6 n 5 / 1 . 6 K V	7n/1.5KV	8n4/1.6KV	8n2/1.6KV
	CAPACITOR	6n8/1K6V (S)				
CL26	HORI. LINEARITY CAPACITOR	360n/250V	360n/250V	360n/250V	470 n/250V	470n/250V
DV24	VIDEO REF ZENER	ZPD5V6	ZPD6V2	ZPD6V2	ZPD6V2	ZPD6V2
LL03	HORI. LINEARITY	112 u H	90 u H	112 uH	58 uH	58uH
LL04	FLYBACK TRANSFORMER	2436914	2436218	2436913	2436893	2436892
P104	DEGAUSSING COIL	DC-1003A	DC-993	DC-975	DC-9010-16	DC-931
RL08	DC BIAS OF VERT O/P RES.	+-1% 13K/0.1W	+-1% 13K/0.1W	+-1% 13K/0.1W	+-1% 13K/0.1W	+-1% 12.1K/0.1W
RL11	VERTICAL DAMPER RESISTOR	390/0.7W	680/0.7₩	390/0.7W	390/0.7W	390/0.7W
RL37	DC BIAS OF VERT OUTPUT RESISTOR	2 14 2	2 M 2	2 N 2	4N7	2 M 2
RP01	SMPS I SENSING RESISTOR	R27/3W	R27/3W	R27/3W	R27/3W	R22/3₩
RL27	HEATER RESISROR	0.56/0.5W	1.5/0.5W	1R/0.5W	0.56/0.5W	0.56/0.5₩
R1.28	+13V FUSIBLE RESISTOR	0.22/0.5W	0.22/0.3W	0.22/0.3W	0.22/0.3W	0.22/0.3W
RV17	CATHODE CURRENT RESISTOR	1K2 PRO 2K7	1 K 0	1 K O	820	750
RV23	AVERAGE I-BEAM RESISTOR	560	470	560	560	680
RV35	AV BEAM RESISTOR	18K	18K	18K	181	15K
RV60	ABL DIVIDER RESISTOR	3KO PRO 2K2	1 K	1 K	1 K	1 <b>K</b>
RV62	AV BEAM RESISTOR	GR	OR	0R	1 K 8	1 K 8
RT66	WHITE-BALANCE RESISTOR	68K	47K	47K	8 2 K	82K
0010	SPEAKER	16/2W	16/2W	16/3W	16/3W	8/4W
RT50	WHITE-BALANCE RESISTOR	22K	22K	22K	47K	33K
RT70	CRT PANEL WHITE-BALANCE	47K	47K	47K	68K/0.25W	47K/0.25₩

Tabelle / Table 5 @@

ITEM	DESCRIPTIONS
BV04	WAFER 17-WAYS
CL 35	CC 330p/50V
CL36	CE 470 u/16V
CL37	CPM 10n/63V
DL35	DIODE BA157
RL18 10"	-
RL18 14"	RCF 6K8/0.25W
RL18 15"	RCF 5K6/0.25W
RL18 16"	RCF 5K6/0.25W
RL18 20"	RCF 5K6/0.25W
R L 4 O	RCFF R22/0.3W
RR14	RCFCC 10K/0.1W
RR15	RCFCC 5K6/0.1W
RR17	RCFCC 22K/0.1W
RR25	RCFCC 56K/0.1W
TR15	TR. BC5488
TR16	TR. BC548B
FOR FAST-TEXT IC	IC SOCKET 42-P
SOCKET IS ADDED TO	SHRINKED DIP
IRO1 MICRO-P IC	

Tabelle / Table 6 @

_			RS05					RS	0.6		R#20
0	10"	14"	15 H	16 n	20"	10°	14"	15"	16"	20°	ALL
PAL/SECAM 2108TX	82K	100K	9 1 K	100K	100K	11K	9 K 1	10K	10K	10K	5.6
PAL/SECAM 2149	100K	100K	56K	68K	75K	24K	11K	12K	11K	15K	5.6
PAL/SECAM 2248	62K	100K	5 & K	68K	68K	13K	11K	11K	10K	12K	56
PAL BG 2200	9 1 K	100K	82K	100K	91K	15K	10K	11K	1 0 K	12K	5.6
PAL 1 2205	82K	100K	82K	100K	91K	13K	9 K 1	11K	10K	12K	56

Tabelle / Table 7 ##

POS.NO.	W/O S-VHS	S-VHS VIA SCART	S-VHS SOCKET	TOCOM
CC38	-	CCCC 22n	CCCC 22n	5010790
1002	-	HCF 4053	HCF 4053	4600670
JC23	-	STRAP 15mm	-	6705700
J C 2 4	-	STRAP 15mm	STRAP 15mm	6705700
JC25		STRAP 15mm	-	6705700
JV50	-	STRAP 10mm	STRAP 10mm	6705660
J V 5 2	-	STRAP 20mm	-	6705740
J V 5 4	-	STRAP 20mm	-	6705740
JV55	-	STRAP 10mm	-	6705660
JV59	-	RCFCC OR	RCFCC OR	9054113
RC53	-	RCF 10K	RCF 10K	4100160
RC55	_	RCFCC 10K	RCFCC 10K	2011030
RC56	_	RCF 47K	RCF 47K	4100190
RC71	-	RCF 100R	RCF 100R	4101070
RC72	-	RCFCC 82R	-	7010350
R V 7 2	-	RCF 1K	-	1032780
T V 1 1	-	TRBC5588	-	4500265
JC27	RCFCC OR	-	-	9054113
J V 5 7	RCFCC OR	-	RCFCC OR	9054113
R V 69	RCF 100R	**	RCF 100R	4100282
R V D 6	-	RCFCC 220R	-	8007790
JC50	-	-	RCFCC OR	9054113
OTHER	-	TX90 SWITCH BD	CONTROL BD WITH S-VHS SOCKET	2011019

Tabelle / Table / \*\*\*

abelle / Ta	able 4 ***							
COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	PAL/SECAN	SECAM	PÁL	PAL	PAL
ΤV	BGHILL BGILL	BGLDKK,	BGDKK.	B G	II.	BG	8 G	1
TUNER	2015	2015	2015	2015/2003	2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	HYP/-	-	HYPERBAND	-	-
IF-WODULE	2108TX	2149	2248	2200	2130TX	2200	2200	2205
LVOI	8.2 u H	8.2uH	8.2uH	10 uH	10 uH	10 u H	10uH	18 u H
QV01	TPW04B 5.5/5.74NHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TW04B 5.5/5.74	TPS6,5M8 6.5MHz	TPW04B 5.5/5.7MHz	TPW048 5.5/5.74NHz	-
QV02	TPS6.OMB 6.OMHz	TPS6.5MB 6.5MHz	TPS8.5MB 6.5MHz	-	-	-	-	TPS6.0ME 6.0MHz
RV20	200	200	200	200	560	220	180	560
RV24	1K5	1 K2	1 K 8	1 K 5	2 K 2	1 K 5	1 K 5	-
RV32	1 K 2	1 K	1 K 2	750	1 K	750	750	560
RR20	56	56	5.6	5 6	-	56	56	5.6
RS05	0	0	0		-	0	٥	6
RS06			8	e	-	0		0
RR94	-	-	-	-	FOK	-	-	-
J101	1 K 5			0 R				
R116	5K6			-				
D103	184148			_				

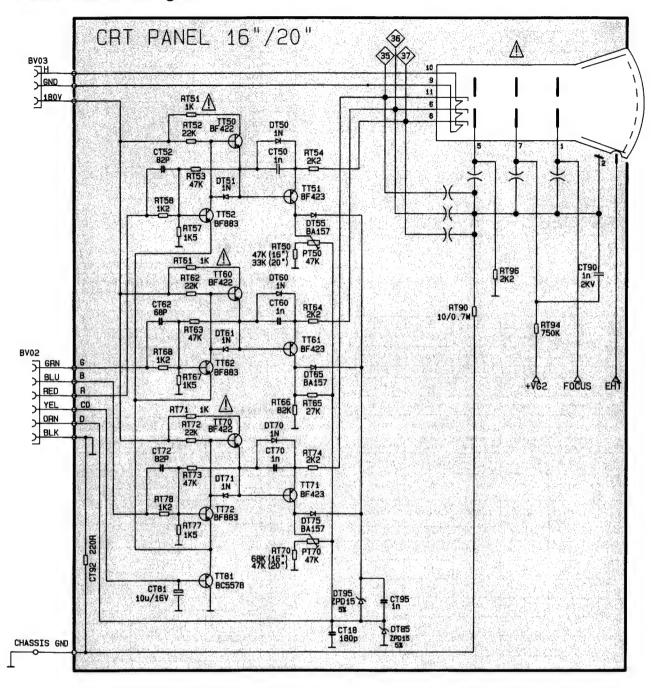
Tabelle / Table 8 ###

POS.NO.	16 X 9		NO 16 K 9
JC48	DIODE ZPD 2V7	44026102	
RL60	RCFCCMIN 1K0	10327800	
TL 05	TR BC5488	45002156	
'CL50	CCCCMIN 2n2	50220900	~
CL 42	CCCCMIN 100p	90207100	
JL 60	RCFCC OR	90541136	
JL 67	STRAP 20mm	67057401	
J163	STRAP 7.5mm	67056901	
RL59	ROFCOMIN 22K	60080300	
JL59	RCFCC OR	90541136	
RR49	RCF 10K	41001602	RCF 10K 41001602
CR05	CCCMIN In	10311300	CCCMIN In 10311300

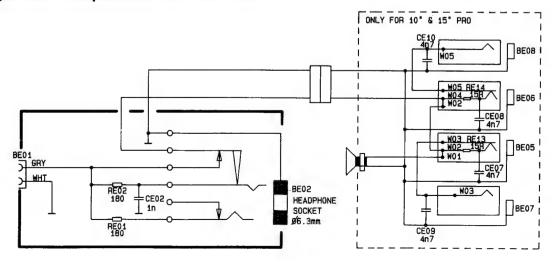
Tabelle / Table 9 #

	,		
POS.NO.	NO. CLOCK	RADIO CLOCK	SIMPLE CLOCK
RR91	-	10K	-
RR96	-	-	1 0 K
JR40	_	0 R	OR
JRB1	-	0 R	OR

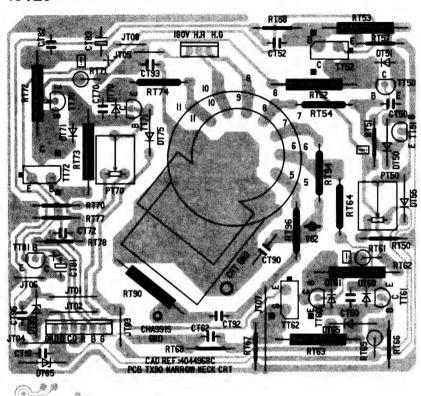
Bildröhrenplatte 16"/20" · Picture tube board · Platine tube image · Basetta Cinescopio · Placa de tubo de imagen



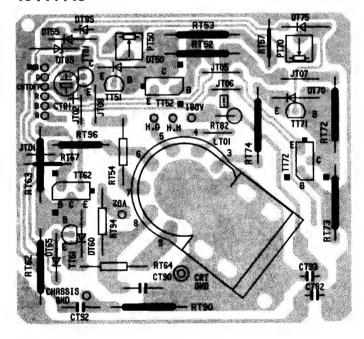
# Lautsprecheranschluß · Speaker connection · Connexion haut-parleur · Collegamento altoparlante - 10"/15" PRO

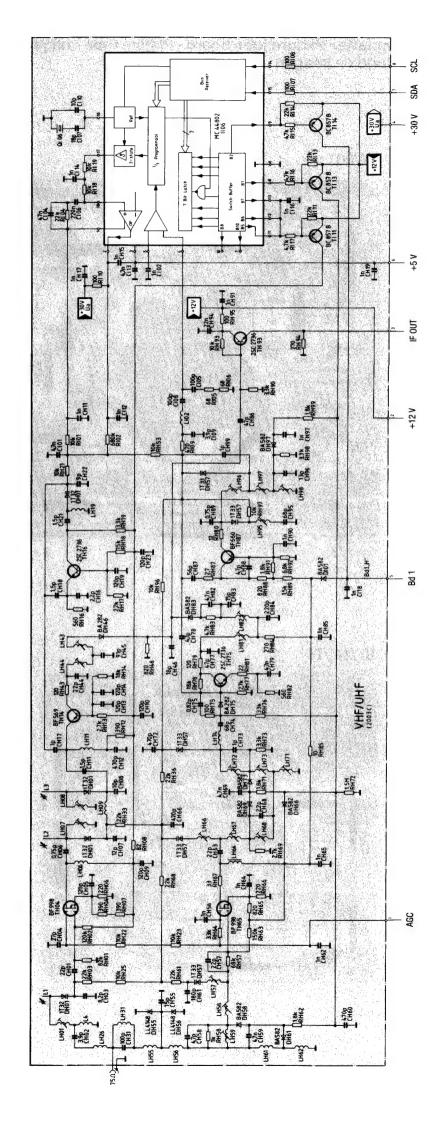


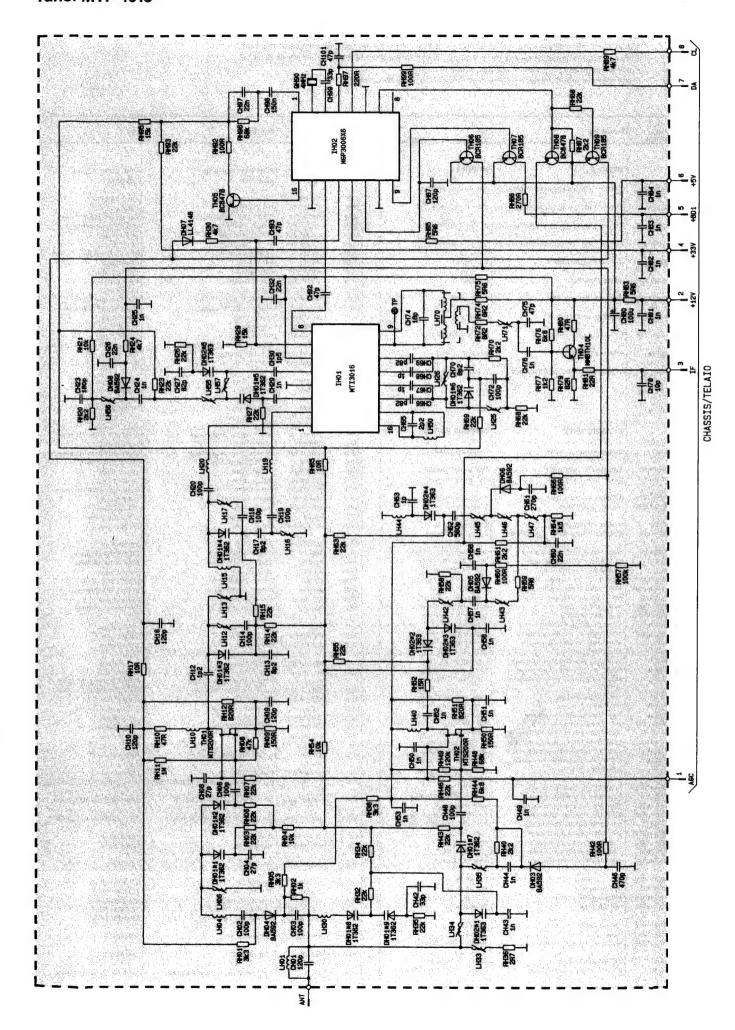
16"/20"



10"/14"/15"







### Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig:

Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!

N.B.: Important:

When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!

Importante:

Ordinare sempre con il numero corrispondenti di codice!

Pedir siemple lis recambios con el numero correspondiente de codigo! Importante:

Pos.	ArtNr Part No. No.articolo	Bezeichnung	Part	P	os.	ArtNr Part No. No.articolo	Bezeichnung	Part
		MODULE:	MODULE:	1 1	0K01	246.056 246.060	HLMP-D150 LED Diode Haiter, LED	HLMP-D150 LED Diode LED holder
CRT 10*	201.857.60	CRT 10° TX90 LTP BILDROHRANSCHLUSS	CRT 10" TX90 PCB CRT		DL01	309.325.927	1N4148 Diode	1N4148 Diode
CRT 14*	349.377.004	CRT 14" TX90 LTP BILDROHRANSCHLUSS	CRT 14° TX90 PCB CRT		DL02	339.529.300 273TX0319	1N4002 Diode BZX83C15V ZENER Diode	1N4002 Diode BZX83C15V ZENER Diode
CRT 16*	490.008.1355	CRT 16" TX90 LTP BILDROHRANSCHLUSS	CRT 16" TX90 PCB CRT	0	)L03	309.325.196	ZPD5V6 ZENER Diode	ZPD5V6 ZENER Diode BA157 Diode
CRT 20*	201.081.30	CRT 20" TX90 LTP BILDROHRANSCHLUSS	CRT 20" TX90 PCB CRT		0L04 0L05	309.325.056 309.325.056	BA157 Diode SSW BA157 Diode SSW	BA157 Diode
IF2110	256.815	IF2110 ZF-VERSTÄRKER	IF2110 UNIT		DL06	239.254 464.871	BYW100-200 Diode BA157 Diode	BYW100-200 Diode BA157 Diode
IF2149	490.007.8266	IF2149 ZF-MODUL	IF2149 UNIT		)L07 )L08	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1 N4148 Diode 1 N4148 Diode
1F2200	490.007.8988	IF2200 ZF-VERSTÄRKER	1F2200 UNIT		)L09 )L10	309.325.927 309.325.927	1N4148 Diode	1N4148 Diode 1N4148 Diode
IF2248	490.007.8982	IF2248 ZF-VERSTÄRKER	IF2248 UNIT		DL11 DL12	273TX5032 339.529.300	ZPD4,7 5% ZENER Diode	ZPD4,7 5% ZENER Diode 1N4002 Diode
			MTP-8G2003.01 TUNER	0	DL 13	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode
MTP2003	349.357.096	MTP-BG2003.01 TUNER			L15	256.333	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
MTP2015	252.758	MTP2015 TUNER	MTP2015 TUNER		DL35 DL38	309.325.056 309.325.056	BA157 Diode SSW BA157 Diode SSW	BA157 Diode BA157 Diode
VT9004	204.663.90	VT9004 TX90 VIDEOTEXT-DECODER	VT9004 TX90 PCB TELETEXT	0	P01	462.268	1N4005 Diode	1N4006 Diode
					P02 P03	462.268 462.268	1N4006 Diode 1N4006 Diode	1N4006 Diode
					P04	462.268	1N4006 Diode	1N4006 Diode
					P05 P06	490.001.1567 273TX0025	BYT11-600 Diode	BYT11-600 Diode 1N4001 Diode
		CHASSIS-TEILE	CHASSIS PARTS		P07	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
BE02	243.876	Bushas Kaniharar 2 5mm	Headphone socket	1	P08	273TX0025	1N4001 Diode	1N4001 Diode
BEUZ	243.076	Buchse, Kopfhörer, 3,5mm	neadphone socket		P09 P10	339.527.021 464.597	MUR115/BYW100-150 Diode ZPD13 ZENER Diode	MUR115/BYW100-150 Diode ZPD13 ZENER Diode
BR01	804.085.95	Stiftgehäuse, 3polig, natur	3 pin contact housing	1	P11	273TX0025	1N4001 Diode	1N4001 Diode
BR09	404.060.81	Stiftgehäuse, 2polig, natur	2 pin contact housing		)P12 )P13	273TX0025 339.527.021	1N4001 Diode MUR115/BYW100-150 Diode	1N4001 Diode MUR115/BYW100-150 Diode
BS01	404.060.81	Stiftgehäuse, 2polig, natur	2 pin contact housing		P17	273TX0025	1N4001 Diode	1N4001 Diode
BS02	490.007.8958	Buchse, Lautsprecher	Speaker jack		P19	273TX0025	1N4001 Diode	1N4001 Diode
BV01 BV04	243.877 309.117.54	Buchse, Euro AV (SCART) Stiftleiste, 17polig, für VT-Decoder TX90	Scart socket Contact strip, 17-pole	٥	P21 P23	252.381 490.008.0461	BYT13-800 Diode PFR852 Diode	BYT13-800 Diode PFR852 Diode
CL22	200.996.90	5NBF 1K6V 3,5% Filmkondensator	5N8F 1K6V 3,5% Film cap		R07	309.325.927 256.421	1N4148 Diode ZPD5V1 ZENER Diode	1N4148 Diode ZPD5V1 ZENER Diode
CL22	243.878	7NF 1K5V 3,5% Filmkondensator	7NF 1K5V 3,5% Film cap	1 1	R40	256.421	ZPD9V1 ZENER Diode	ZPD9V1 ZENER Diode
CL22	249.180	8N2F 1K6V Filmkondensator	8N2F 1K6V Film cap	1 1	R76	339.525.013	1N4001 Diode	1N4001 Diode
CL22 CL22	490.007.8950 490.008.0865	6N8F 1K6V 3,5% Filmkondensator 6N8F 1K6V Filmkondensator	6N5F 1K6V 3,5% Film cap 6N8F 1K6V Film cap		R78 R79	256.421 256.421	ZPD5V1 ZENER Diode ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
CL22	905.659.10	8N6F 1K6V 3,5% Filmkondensator	8N6F 1K6V 3,5% Film cap	D	R80	309.325.927	1N4148 Diode	1N4148 Diode
CL23 CL24	490.007.8233 490.007.8233	3U3F 160V 20% Elko 3U3F 160V 20% Elko	3U3F 160V 20% E cap 3U3F 160V 20% E cap		R81	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode
CL26	266.729	300NF 250V 3,5% Filmkondensator	300NF 250V 3,5% Film cap	D	S02	309.325.927	1N4148 Diode	1N4148 Diode
CL26 CL26	309.434.626 440.089	360NF 250V 5% Filmkondensator 470NF 250V 5% MPP-Kondensator	360NF 250V 5% Film cap 470NF 250V 5% MPoly cap	1 1	S03 S30	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode
CL27	246.740	47U, 250V ELKO	47UF 250V E cap	"	7530	309.325.927	IN4146 Diode	IN4148 DIOGE
CL29 CL30	266.243 266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap 330PF 1KV 10% C cap		V03	309.325.927	1N4148 Diode	1N4148 Diode
CL38	243.879	330PF 1KV 10% Keramik-Kondensator 330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap	1	V04 V05	309.325.927	1N4148 Diode MUR115/BYW100-150 Diode	1N4148 Diode MUR115/BYW100-150 Diode
				D	V06	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
CP01 CP01	243.351 243.880	150UF 385V 20% Elko 150UF 400V 20% Elko	150UF 385V 20% E cap 150UF 400V 20% E cap		V22 V24	309.325.927 246.395	1N4148 Diode ZPD6V2 ZENER Diode	1N4148 Diode ZPD6V2 ZENER Diode
CP02	260.535	10NF 400V 20% MP-Kondensator	10NF 400V 20% MP cap		V25	309.325.927	1N4148 Diode	1N4148 Diode
CP05 CP07	309.442.977 243.879	1NF 1KV Keramik-Kondensator 330PF 400V 20% Keramik-Kondensator	1NF 1KV C cap 330PF 400V 20% C cap		V38	464.372	ZPD6,8 ZENER Diode	ZPD6,8 ZENER Diode
CP09	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap	ا ا	V40	309.325.927	1N4148 Diode	1N4148 DIOGE
CP20 CP21	261.818 266.243	3N9F 400V 20% Keramik-Kondensator 330PF 1KV 10% Keramik-Kondensator	3N9F 400V 20% C cap 330PF 1KV 10% C cap	F	P01	467.089	GSchmelzeinsatz, T 1,6A III	Glass fuse, T 1,6A
CP22	243.881	220UF 160V 20% Elko	220UF 160V 20% E cap	l le	001	490.007.8241	TEA5640F IC	TEA5640F IC
CP23 CP24	243.879	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap		002	411.714	MC14053B/HEF4053B/TC4053B/BU4053B IC	
CP28	309.442.975 252.320	470PF 2KV Keramik-Kondensator 0U1F 275V 20% MP-Kondensator	470PF 2KV C cap 0U1F 275V 20% MPoly cap		=01	490.007.8242	CRILIZACE IR VODVEDSTÄRKER	INFRA-RED PRE-AMPLIFIER
CP28	309.440.680	10NF 275V Keramik-Kondensator	10NF 275V C cap	"	E01	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	
CP30 CP31	316.920.6000 252.320	68NF 250V 10% MP-Kondensator 0U1F 275V 20% MP-Kondensator	68NF 250V 10% MPoly cap 0U1F 275V 20% MPoly cap	114	<b>&lt;02</b>	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	INFRA-RED PRE-AMPLIFIER
CP35	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap	I.	_01	201.156.90	TDA8214B IC	TDA8214B IC
CP36 CP37	309.442,972 309.442,972	1N5F 1KV Keramik-Kondensator 1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap 1N5F 1KV C cap		LO1	490.007.8268	TDA8218 IC	TDA8218 IC
CP38	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap	IF	P01	309.368.549	TEA2261 IC	TEA2261 IC
DC01 DC02	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode		R01	201.483.70	ST6392B1/ZP TX90-08 IC	ST6392B1/ZP IC
DC10	309.325.196	ZPD5V6 ZENER Diode	ZPD5V6 ZENER Diode		R01 R01	243.884 309.689.966	ST6399B1/KM IC IC IC-Fassung, 42polig	ST6399B1/KM IC IC socket, 42pole
DC15	309.325.927	1N4148 Diode	1N4148 Diode	IF	R01	490.008.0462 490.008.1359	ST6399B1/KU TX90-05 IC ST6392B1/TT TX90-07 IC	ST6399B1/KU IC ST6392B1/TT IC
DE02 DE03	309.325.927 201.258.7A	1N4148 Diode Halter, LED	1N4148 Diode LED holder					
DE03	309.327.134	MV5491A LED ROT/GRÜN Diode	MV5491A LED Diode		801	411.673	TDA2006 IC	TDA2006 IC
DH02 DH04	256.421 256.333	ZPD5V1 ZENER Diode ZPD33V 0,5W 2% ZENER Diode	ZPD5V1 ZENER Diode ZPD33V 0,5W 2% ZENER Diode		V01 L15	243.885 276.873	TEA5040S-3 IC  10R 0,3W 5% Sicherheitswiderstand	TEA5040S-3 IC 10R 0,3W 5% Fusible resistor
DI01	464.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode				-,	

### Ersatzteilliste $\cdot$ Spare parts list $\cdot$ Liste de pièces de rechange $\cdot$ Lista parti di ricambio $\cdot$ Lista de piezas de recambio

Wichtig:

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Importante:

Ordinare sempre con il numero corrispondenti di codice!

Importante: Pedir siemple lis recambios con el numero correspondiente de codigo!

March   Marc	D	ArtNr	Persishnung	Part	Pos.	ArtNr Part No.	Bezeichnung	Part
20.000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000	Pos.		Bezeichnung	Part	Pos.		Bezeichnung	1 4 4
20.000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000   20.0000								
100   100	LC01	309.250.966	10UH 10% Drossel	10UH 10% Choke	RP17	490.007.8263	4R7 10W 5% Drahtwiderstand	4R7 10W 5% Wire resistor
2005   20.0000000000000000000000000000000000	LC02							
200   200	LC03	243.886	10UF 5% Drossel	10UF 5% Choke				
1995   24.50   25.50								
1.00   20.00	LE01	339.349.566	2X400UH Netzeingangsdrossel	2X400UH Power choke	1			
2019   30,84   202   Carl No. Check   202	LH01	309.249.342	47UH Drossel	47UH Choke				BZX55C5V1 ZENER Diode
1.00								
1.1.1						1		
20.45.50   20.45.50					BVOI	309 534 654	22F 0 3W 5% Sicherheitswiderstand	22B 0.3W 5% Fusible resistor
1984   1984					1			
March   Marc								
Document			·	The state of the s				
1.000   1.00								
Line				Diode split transformer	SE01-04	105.106.00	Taktschalter	Tact switch
1.0.00   1				Diode split transformer	SE05	201.260.10	Netzschalter, 4A 250V	Mains switch
According   Color	LL04	490.007.8955 S	Diodensplit-Trafo, TX90 14*	Diode split transformer				
1.00   23   23   25   25   17   18   19   18   19   18   19   19   19	LL04	490.008.0541 S	Diodensplit-Trafo, TX90 20" (2436892)	Diode split transformer	SW01-04	309.639.035	Taktschalter	Tact switch
20.000   20.0000   20.00000   20.000000   20.0000000   20.0000000000	LL04	490.008.0866 S	Diodensplit-Trafo, TX90 15"					
Filter Clouds		243.888	Treibertransformator					
200   20.000   20.0000   20.00000   20.0000000000	LL06	309.250.964	50UH Drossel	50UH Choke				
				1				
1.00   1.00								
PASS   80.0886   Trans. Social between   Secure   Securi   Secur					TC02	463.223	BU548C Transistor	BUS48U Transistor
18-000   18-0000   18-0000   18-0000   18-0000   18-0000   18-00		1			TEO	465 001	BC557B Transietor	BC557B Transistor
20.2.390   1.0.1   1					1 501	465.981	DC33/B (Tansisto)	DOSSID ITALISMON
1971   48.046   1972   1974	1				TIO1	243 908	BC637 Transistor	BC637 Transistor
2006   2016								
23.53   23.5					1			
Record   10UH Dressel   10UH Choke call   17.02   483.222   20   20   20   20   20   20   20					TJ01	266.430	BC558/A* Transistor selektiert	BC558/A* Transistor
1.00   1.00	1723	243.072	202112378 0103361		TJ02	463.222	BC548B Transistor	BC548B Transistor
1901   100	1801	266 408	10UH Drossel	10UH Choke coil	TJ03	309.001.226	BC558B Transistor	BC558B Transistor
1,000   1,00					TJ04	309.001.226	BC558B Transistor	BC558B Transistor
Vol.   103   30   30   50   10   10   10   10   10   10   1				Filter				
142,035							S2055AF Transistor	
Moderate	LV01	309.250.966	10UH 10% Drossel	10UH 10% Choke				1
No.						1		
28.03   28.04   29.0			27UH Filter					
Substance   Subs						1		1
PCO  243 891   SOKR 20% Trimmwiderstand   SOKR	LV06	339.349.058	39UH Resonanzspule	39UH Peaking coil				
PLOS   248,865   100R 20% Trimmwiderstand   100R 20% Trimmer resistor   100R 20% Tri	PC01	243.891	50KR 20% Trimmwiderstand	50KR 20% Trimmer resistor				1
PLOS   248,865   100R 20% Trimmwiderstand   100R 20% Trimmer resistor   100R 20% Tri					TPO1	242 012	BUT124 Transistor	BUT124 Transistor
PLOS   243.894   100R 20% Trimmedratand   50R 20% Trimmer resistor   5KR 10% Trimmer resistor   5KR								
\$\ \text{PLOS}   243.885   \$\ \text{SORT Trimmer resistor}   \$\ \text{SCR1 10's Trimmer resistor}   \$\ SCR1 10's Trimmer resist								1 . ,
PLOS   243.896   SKR 10% Trimmwiderstand   SKR 10% Trimmwiderstand   SCR 20% Trimmer resistor   TRI4   29.1791   SCR48A Transistor   SCR48A Transistor   SCR48A Transistor   SCR48A Transistor   SCR48A Transistor   SCR48A Transistor   SCR48B Tran					1502	-00.223	DOCTOR ITALIBIOLO	DOUGH THE MAN TO SEE THE SEE T
School					TR13	261,791	BC548A Transistor	BC548A Transistor
PO   243.897   SOR 20% Trimmwiderstand   SOR 20% Trimmer resistor   TRIS   309.00.1293   BC48B Transistor   SC48B Transistor	. 205	243.690	One, 1070 Hammardorstand					
April	PP01	243.897	500R 20% Trimmwiderstand	500R 20% Trimmer resistor				1
No.	1							BC548B Transistor
No.   Col.   243.909   243.909   243.909   243.900   2	QR01	490.007.8956	8MHZ Quarz	8MHZ Crystal				1
TPS6.5MB Karamiktities	1					309.001.293		
RC07   243,900   22R 0,5W 5% Sicherheitswiderstand   22R 0,5W 5% Fusible resistor   1RR 0,3W 5% Fusible resistor   1RR 0,3								,
RCO7   243,900   228,0,5% %% Scherheitswiderstand   22R 0,5% %% Fusible resistor   18R 0,3% %% Fusible resistor   18R 0,3% %% Fusible resistor   18R 0,3% %% Fusible resistor   120R 2W 5% Metal oxide resistor	QV02	243.899	TPS6.5MB Keramikfilter	TPS6.5MB Ceramic filter				
REOS   273TX0321   SZK83C12 ZENER Diode   S				000 0 504 504 5				DOGGOD Hambleton
RE05   273TX0321   BZX83C12 ZENER Dide   B								
RE05   273TX0321   BZX83C12 ZENER Diode   B	RC07	309,533.636	18H 0,3W 5% Sicherheitswiderstand	18H 0,3W 5% Fusible resistor				
RH01   309.580.955   22R 0.3W 5% Sicherheitswiderstand   120R 2W 5% Metal oxide resistor   120R 2W 5% Meta	RE05	273TX0321	BZX83C12 ZENER Diode	BZX83C12 ZENER Diode	1 H82	352.113.3000	DC036 Transistor	- DU03D I ransistor
RH02   243,901   120 R 2W 5% Metalloxydwiderstand   120 R 2W 5% Metal oxide resistor   TV01   309,001,226   BC588 Transistor								
RI15   309,580,967   1RB 0,3W 5% Sicherhelitswiderstand   1RB 0,3W 5% Fusible resistor   1RB 0,3W 5% Sicherhelitswiderstand   1RB 0,3W 5% Fusible resistor   1RB 0,3W 5% Sicherhelitswiderstand   1RB 0,3W 5% Fusible resistor   1RB 0,3W 5% Sicherhelitswiderstand   1RB 0,3W 5% Fusible resistor   1RB 0,3W 5% Fus					TS03	309.001.293	BC548B Transistor	BC548B Transistor
R15   399,580,967   R8 0,3W 5% Sicherheitswiderstand   R8 0,3W 5% Fusible resistor   SR2 0,3W 5% Sicherheitswiderstand   SR2 0,3W 5% Fusible resistor   SR2 0,3W 5% Sicherheitswiderstand   SR2 0,3W 5% Fusible resistor   TV04   309,001.226			,		TV01	309.001.293	BC548B Transistor	BC548B Transistor
Rue	RI15	309.580.967	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor				
RJ20   335.550.8100   RR2 0.3W 5% Sicherheitswiderstand   RR2 0.3W 5% Fusible resistor   TV06   309.001.226   BC558B Transistor   BC558C Transistor   BC548C Transistor   BC548C Transistor   BC558C Transistor   BC548C Transistor   BC558C Transistor   BC558C Transis						1		BC558B Transistor
RL21   276.873   10R 0,3W 5% Sicherheitswiderstand   10R 0,3W 5% Fusible resistor   249.515   33R 1W 5% Metalloxydwiderstand   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor   10R 0,5W 5% Sicherheitswiderstand   10R 0,5W 5% Fusible resistor	RJ20	335.550.6100	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor		1	BC558B Transistor	
RL25					TV05			
RL25   256.361   27R 2W 5% Metalloxydwiderstand   27R 2W 5% Metal oxide resistor   1R8 0,5W 5% Sicherheitswiderstand   1R8 0,5W 5% Sicherheitswiderstand   1R8 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R5 0						1		1
R27   243,455   R8 0,5W 5% Sicherheitswiderstand   R8 0,5W 5% Fusible resistor   OR56 0,5W 5% Sicherheitswiderstand   R8 0,5W 5% Fusible resistor   OR56 0,5W 5% Sicherheitswiderstand   R8 0,5W 5% Fusible resistor   OR56 0,5W 5% Sicherheitswiderstand   R8 0,5W 5% Fusible resistor   R127   A99,169   R1 0,5W 5% Sicherheitswiderstand   R1 0,5W 5% Fusible resistor   R128   A99,007,8973   OR22 0,3W 5% Sicherheitswiderstand   OR22 0,3W 5% Fusible resistor   OR22 0,35W 5% Fusible resistor   OR22 0,55W 5% Fusible resistor   OR22								
RL27   243,902   OR56 0,5W 5% Sicherheitswiderstand   OR56 0,5W 5% Fusible resistor   1R5 0,5W 5% Sicherheitswiderstand   1R5 0,5W 5% Fusible resistor   1R0 0,5W 5% Sicherheitswiderstand   1R0 0,5W 5% Fusible resistor   1R0 0,5W 5% Sicherheitswiderstand   1R0 0,5W 5% Fusible resistor   1R0 0,5W 5% Sicherheitswiderstand   1R0 0,5W 5% Fusible resistor   OR22 0,3W 5% Sicherheitswiderstand   OR22 0,3W 5% Sicherheitswiderstand   OR22 0,3W 5% Fusible resistor   OR22 0,3W 5% Sicherheitswiderstand   OR22 0,3W 5% Fusible resistor   VV01   201.462.70   VV01   243.909   Verzögerungsleitung   Oelay line			The state of the s		1			
RL27   309.580.958   RL28   490.007.8973   RL28   490.007.8973   OR22 0.385 % Metalloxydwiderstand   CR25 0.5W 5% Fusible resistor   OR22 0.35W 5% Fusible resistor					TV12	309.001.226	BC558B Transistor	BC558B Transistor
RL27   409.169								B. L
RL28         490.007.8973         0R22 0,3W 5% Sicherheitswiderstand         0R22 0,3W 5% Fusible resistor         VV01         201.462.70         CD0091-2 (Y DELAY LINE) LC-Filter         CD0091-2 LC Filter           RL28         490.007.8987         0R22 0,3SW 5% Sicherheitswiderstand         0R22 0,35W 5% Fusible resistor         0R22 0,35W 5% Sicherheitswiderstand         0R22 0,35W 5% Sicherheitswiderstand         0R22 0,35W 5% Sicherheitswiderstand         1KR 0,5W 10% Fusible resistor           RL40         490.007.8987         0R22 0,35W 5% Sicherheitswiderstand         0R22 0,5W 5% Fusible resistor         0R22 0,5W 5% Fusible resistor         RD22 0,5W 5% Sicherheitswiderstand         0R22 0,5W 5% Fusible resistor           RP01         243.905         0R27 3W 5% Metallifilmwiderstand         0R22 3W Metallifilm resistor         0R22 3W Metallifilm resistor         490.008.0543         0R22 3W Metallifilmwiderstand         0R22 3W Metallifilm resistor           RP04         249.515         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand         1KR 9W 10% Wire resistor					VC01	309.699.270	SDL145S / DL711 Verzögerungsleitung	Delay line
RL28					1000	201 402 72	CDOOM NA DELAY LINES LO EIN-	CD0001-2 i C Filtor
RL31   243.904   220R 2W 5% Metalloxydwiderstand   220R 2W 5% Metal oxide resistor   1KR 0.5W 10% Sicherheitswiderstand   0R22 0.5W 5% Sicherheitswiderstand   0R22 0.5W 5% Sicherheitswiderstand   0R22 0.5W 5% Fusible resistor   0R22 0.5W 5% Sicherheitswiderstand   0R22 0.5W 5% Fusible resistor   0R22 0.5W 5% Sicherheitswiderstand   0R22 0.5W 5% Fusible resistor   0R22 0.5W 5% Fusible resistor   0R22 0.5W 5% Fusible resistor   0R22 0.5W 5% Metallfilmwiderstand   0R22 0.5W 5% Metallfilm resistor   0R22 0.5W 5% Metallfilmwiderstand   0R22 0.5W 5% Metallfilm resistor   0R22 0.5W 5% Metallfilmwiderstand   0R22 0.5W 5% Metallfilm resistor   0R22 0.5W 5% Metallfilmwiderstand   0R22 0.5W 5% Metallfilm resistor   0R22 0.5W 5% Metallfilmwiderstand   0R22 0.5W 5% Metallfilmwiderst								
RL 40					4401	243.909	verzogerungsieltung	Joiay sine
RL40         490.007.8987         0R22 0,35W 5% Sicherheitswiderstand         0R22 0,5W 5% Fusible resistor           RL41         243.903         0R22 0,5W 5% Sicherheitswiderstand         0R22 0,5W 5% Fusible resistor           RP01         243.905         0R27 3W 5% Metallitimwiderstand         0R27 3W 5% Metal film resistor           RP01         490.008.0543         0R22 3W Metallitimwiderstand         0R22 3W Metallitim resistor           33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metalloxydwiderstand           RP04         256.799         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor		1	-		1-	804,087.89	Halter, Scart	Scart holder
RP01         243.905         OR22 0.5W 5% Sicherheitswiderstand         OR22 0.5W 5% Fusible resistor           RP01         243.905         OR27 3W 5% Metallfilm widerstand         OR27 3W 5% Metallfilm resistor           RP01         490.008.0543         OR22 3W Metallfilm widerstand         OR22 3W Metallfilm resistor           RP04         249.515         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metal oxide resistor           RP04         256.799         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor						501.007.09	The state of the s	
RP01         490.008.0543         0R22 3W Metallfilmwiderstand         0R22 3W Metallfilmwiderstand         0R22 3W Metallfilmwiderstand           RP04         249.515         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metalloxydwiderstand           RP04         266.799         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metalloxydwiderstand           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor								
RP01         490.008.0543         0R22 3W Metallfilmwiderstand         0R22 3W Metall film resistor           RP04         249.515         33R I W 5% Metalloxydwiderstand         33R I W 5% Metalloxydwiderstand         33R I W 5% Metalloxydwiderstand           RP04         256.799         47R I W 5% Metalloxydwiderstand         47R I W 5% Metalloxydwiderstand           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor	RP01	243.905	0R27 3W 5% Metallfilmwiderstand	0R27 3W 5% Metal film resistor				
RP04         249.515         33R 1W 5% Metalloxydwiderstand         33R 1W 5% Metal oxide resistor           RP04         256.799         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metal oxide resistor           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor	RP01							1
RP04         256.799         47R 1W 5% Metalloxydwiderstand         47R 1W 5% Metal oxide resistor           RP05         243.906         1KR 9W 10% Drahtwiderstand         1KR 9W 10% Wire resistor	RP04		33R 1W 5% Metalloxydwiderstand					
RP10   243.922   27KR 5W 5% Drahtwiderstand   27KR 5W 5% Wire resistor			LAND OW 109/ Drobbwiderstand	1KB 9W 10% Wire resistor	1			
	RP05	243.906			1			
	RP05							
	RP05							

# Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig:

Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!

N.B.: Important: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!

Importante:

Ordinare sempre con il numero corrispondenti di codice!

Importante:

Pedir siemple lis recambios con el numero correspondiente de codigo!

Pos.	ArtNr Part No. No.articolo	Bezeichnung	Part
		BILDROHRPLATTE 10" / 14" / 15"	CRT BOARD 10" / 14" / 15"
TT51	463.240	8F423 Transistor	BF423 Transistor
TT52	465.913	BF422 Transistor	BF422 Transistor
TT61	463.240	BF423 Transistor	BF423 Transistor
TT62	465.913	BF422 Transistor	BF422 Transistor
TT71	463.240	BF423 Transistor	BF423 Transistor
TT72	465.913	BF422 Transistor	BF422 Transistor
TT81	465.981	BC557B Transistor	BC557B Transistor
DT50	309.325.927	1N4148 Diode	1N4148 Diode
DT55	309.325.056	BA157 Diode SSW	BA157 Diode
DT60	309.325.927	1N4148 Diode	1N4148 Diode
DT65	309.325.056	BA157 Diode SSW	BA157 Diode
DT70	309.325.927	1N4148 Diode	1N4148 Diode
DT75	309.325.056	BA157 Diode SSW	BA157 Diode
DT85	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode
DT95	273TX0443	BZX83C20 ZENER Diode	BZX83C20 ZENER Diode
CT90	309.442.978	1NF 2KV 20% Keramik-Kondensator	1NF 2KV 20% C cap
PT50	243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor
PT70	243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor
RT52	243.875	10KR 2W 10% Metalloxydwiderstand	10KR 2W 10% Metal oxide resistor
RT62	239.252	10KR 3W 5% Metalloxydwiderstand	10KR 3W 5% Metal oxide resistor
RT72	239.252	10KR 3W 5% Metalloxydwiderstand	10KR 3W 5% Metal oxide resistor
	201.746.20	Bildrohrtassung, TX90 10*	Cathode ray tube socket
		BILDROHRPLATTE 16" / 20"	CRT BOARD 16" / 20"
TT50	490.007.8583	BF422 TRANS	Transistor, BF422
TT51	463.240	Transistor, BF423	Transistor, BF423
TT52	273.870	Halter, Kunststoff, Transistor	Plastic holder, Transistor
TT52	490,008,1387	TRANSISTOR BF883/S	Transistor, BF883S
TT60	490.007.8583	BF422 TRANS	Transistor, BF422
TT61	463.240	Transistor, 8F423	Transistor, BF423
TT62	273.870	Halter, Kunststoff, Transistor	Plastic holder, Transistor
TT62	490.008.1387	TRANSISTOR BF883/S	Transistor, BF883S
TT70	490.007.8583	BF422 TRANS	Transistor, BF422
TT71	463.240	Transistor, BF423	Transistor, BF423 Plastic holder, Transistor
TT72 TT72	273.870 490.008.1387	Halter, Kunststoff, Transistor TRANSISTOR BF883/S	Transistor, BF883S
TT81	352.110.3000	BC557B TRANS	Transistor, BC557B
DTEA	254 204 5	BIODE WHAT	Diode, 1N4148
DT50 DT51	351.221.6000	DIODE 1N4148 DIODE 1N4148	Diode, 1N4148
DT55	351.221.6000 490.007.8520	DIODE 1N4148 DIODE BA157	BA157 Diode
DT60	351.221.6000	DIODE IN4148	Diode, 1N4148
	351.221.6000	DIODE 1N4148	Diode, 1N4148
DT61	490.007.8520	DIODE BA157	BA157 Diode
	490.007.8520		Diode, 1N4148
DT61 DT65 DT70	351.221.6000	DIODE 1N4148	D1040, 1114140
DT65		DIODE 1N4148 DIODE 1N4148	Diode, 1N4148
DT65 DT70 DT71 DT75	351.221.6000 351.221.6000 490.007.8520	DIODE 1N4148 DIODE BA157	Diode, 1N4148 BA157 Diode
DT65 DT70 DT71	351.221.6000 351.221.6000	DIODE 1N4148	Diode, 1N4148

Pos.	ArtNr Part No. No.articolo	Bezeichnung	Part
CT90	490.008.0431	KONDENSATOR 1NF/2KV	C cap, 1nF, 2kV, 20%
0130	430.000.0401	RONDENDATON INVENT	0 dap; 1111 ; 2.44 ; 2074
PT50	338.701.1000	POTI 47K	Potentiometer, 47kΩ
PT70	338.701.1000	POTI 47K	Potentiometer, 47kΩ
RT51	246.869	Sicherheitswiderstand, 1kΩ, 0,3W, 10%	Fusible resistor, 1kΩ, 0,3W
RT61	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
RT71	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
	353.902.1000	BILDROEHRENFASSUNG	Cathode ray tube socket
		DC-DC KONVERTER	DC-DC CONVERTER
BD712	804.085.95	Stiftgehäuse, 3polig, natur	3 pin contact housing
DD701	309.325.181	1S1834 Diode	1S1834 Diode
DD702	309.325.181	1S1834 Diode	1\$1834 Diode
DD703	309.325.112	BA158 Diode	BA158 Diode
DD704	309.325.112	BA158 Diode	BA158 Diode
DD705	309.325.112	BA158 Diode	BA158 Diode
DD706	309.325.112	BA158 Diode	BA158 Diode
DD707	273TX0025	1N4001 Diode	1N4001 Diode
DD710	273TX0025	1N4001 Diode	1N4001 Diode
DD712	462.268	1N4006 Diode	1N4006 Diode
DD713	309.325.927	1N4148 Diode	1N4148 Diode
FD702	309.628.909	8A 60V Sicherung	8A 60V Fuse
LD701	490.007.8223	SPULE 170UH	Choke coil, 170µH
LD7021	490.007.8224	DC-DC-KONVERTER	TF-M DC-DC CONVERTER
LD7031	309.636.943	Relais, 12V, 22mA	Relay, 12V, 22mA
LD704	243.872	2U2H 25% Drossel	2U2H 25% Choke
RD702	309.580.983	220R 0,3W 5% Sicherheitswiderstand	220R 0,3W 5% Fusible resistor
RD707	246.045	22R 0,7W 5% Metalloxydwiderstand	22R 0,7W 5% Metal oxide resisto
RD709	243.873	0R68 0,3W 5% Sicherheitswiderstand	0R68 0,3W 5% Fusible resistor
T0701	309.003.751	416-1 Transistor	416-1 Transistor
TD701,702	149.078	Montagectip	Clip
TD702	309.003.751	416-1 Transistor	416-1 Transistor
TD703	339.556.222	BC547B Transistor	BC547B Transistor
		Weitere gerätespezifische Ersatzteile lieferbar.	Further spare parts ar available.

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#### Symptom (8)

Activating the child safety.

#### Porada

Program timer and switch off with RC.

#### Symptom (9)

Activating the hotal mode.

#### Porada

From software 08:

- 1. Switch appliance into standby.
- 2. Switch off mains.
- 3. Keep standby key on the RC pressed in.
- 4. Switch on mains.

#### Symptom (10)

How to unlock hotel mode.

#### Porada

Procedure:

- 1. Switch set off using RC.
- 2. Switch off set from mains switch at rear.
- 3. Wait for 30 seconds.
- 4. Holding down standby on RC switch set back on.5. The menu should now be shown, switch off hotel mode using volume key.
- 6. Finally press TV on handset.